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1: Pacing Clin Electrophysiol 1996 Jun;19(6):913-9

Safe performance of magnetic resonance imaging on five patients with permanent cardiac pacemakers.

Gimbel JR, Johnson D, Levine PA, Wilkoff BL.

Department of Cardiology, Cleveland Clinic Foundation, Ohio 44195, USA.

Pelated Kespitties

pacing configurations (single and dual chamber; unipolar and bipolar; sensor and sensing thresholds. During MRI the patient was monitored using either ECG, pulse was performed before and after scanning including determination of pacing and oximetry, or direct voice contact. In four patients heavy dressings were applied Five patients with permanent cardiac pacemakers (Pacesetter models 261, 285, nonsensor driven) were scanned. A thorough evaluation of each pacing system experienced during MRI. RESULTS: The four nonpacemaker dependent patients over the pacemaker pocket site. Patients were asked to report any symptoms patient (underlying rhythm asystole) was pacemaker dependent. A variety of 2016, 2020, 2022) underwent magnetic resonance imaging (MRI). Only one remained in sinus rhythm throughout the MRI. During and after the MRI all

the patient. It is unclear whether the isolated pause that was observed was due to and follow-up after MRI are of paramount importance. Further study is necessary CONCLUSION: When appropriate strategies are used our experience suggests that MRI may be performed, when necessary, with an acceptable risk-benefit ratio to pacemaker. Appropriate patient selection, close monitoring during the scan, device programmed DOO. No patient experienced any torque or heat sensation. approximately 2 seconds (noted by pulse oximeter) toward the end of the scan the effect of the MRI, an artifact with the monitoring system, or oversensing by This occurred in a pacemaker dependent patient with a unipolar dual chamber to refine the appropriate strategies that could be used to consistently perform pacemakers continued to function normally except for one transient pause of MRI safely in a selected pacemaker population.

PMID: 8774821 [PubMed - indexed for MEDLINE]

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